

Application No. 10/624,401
Filed: July 22, 2003
PRELIMINARY AMENDMENT FILED WITH REQUEST FOR CONTINUED EXAMINATION (RCE)

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1-4. (previously canceled)

5 - 17. (canceled)

18. (new) A method for migrating a communications device from a first wireless communications network to a second wireless communications network, the communications device being assigned a mobile station identification number (MSIN), the method comprising:

transferring a subscriber profile associated with the communications device from the first communications network to the second communications network, and associating the transferred subscriber profile to a subscriber identifier usable by the second communications network;

associating the assigned MSIN with a block identifier that identifies the communications device as a member of a group that is to be migrated to the second communications network;

receiving a registration request from the communications device, the registration request including the block identifier and the MSIN;

detecting the block identifier; and

if the registration request is received in the first communications network:

in response to detecting the block identifier, associating the MSIN with an interworking and interoperability function (IIF) and routing the registration request to the IIF.

19. (new) The method of Claim 18, further comprising:

at the IIF, mapping the MSIN to the subscriber identifier, and forwarding the registration request including the subscriber identifier to the second communications network for processing by the second communications network.

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20. (new) The method of Claim 18, further comprising:
if the registration request is received in the second communications network:
in response to detecting the block identifier, mapping the MSIN to the subscriber identifier, and processing the registration request including the subscriber identifier in the second communications network.

21. (new) The method of Claim 18, further comprising provisioning a signaling transfer point (STP) in the first communications network to detect the block identifier;
wherein:
associating the MSIN with an IIF is performed at the signaling transfer point (STP) in the first communications network; and
routing the registration request to the IIF comprises performing global title translation on the MSIN.

22. (new) The method of Claim 20, further comprising provisioning a signaling transfer point (STP) in the second communications network to detect the block identifier;
wherein:
mapping the MSIN to the subscriber identifier is performed at the signaling transfer point (STP) in the second communications network; and
processing the registration request comprises performing global title translation on the subscriber identifier.

23. (new) The method of Claim 18, further comprising in response to detecting the block identifier, converting the communications device to operate as native to the second communications network.

24. (new) The method of Claim 23, wherein the communications is converted over-the-air.

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25. (new) A method for registering a wireless device having a subscription profile that has been migrated from a first communications network to a second communications network, the wireless device being assigned a mobile station identification number (MSIN), the method comprising:

associating the assigned MSIN with a block identifier, the block identifier indicating that the wireless device is a member of a group has been migrated to the second communications network;

at a signaling transfer point (STP) in the first communications network, receiving a registration request from the wireless device, the registration request including the block identifier;

in response to detecting the block identifier, associating the MSIN with an interworking and interoperability function (IIF);

routing the registration request to the IIF; and

at the IIF:

mapping the MSIN to a subscriber identifier having a format that is usable by the second communications network; and

forwarding the registration request including the subscriber identifier to the second communications network for processing by the second communications network.

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26. (new) A method for registering a wireless device that has been migrated to a Global System for Mobile (GSM) network, the wireless device being assigned a Mobile Subscriber Identification Number (MSIN), the method comprising:

receiving a registration request at a mobile switching center (MSC) in a visited network selected from the group comprising: a Time Division Multiple Access (TDMA) network and a Code Division Multiple Access (CDMA) network, the registration request including the MSIN;

forwarding the registration request to a Signaling Transfer Point (STP) in the visited network;

at the STP:

detecting that the wireless device has been migrated;

in response to detecting that the wireless device has been migrated, analyzing the registration request using global title translation (GTT) based on the MSIN to identify a Home Location Register (HLR) in the GSM network containing a subscription profile associated with the subscribed wireless device, the subscription profile including an International Mobile Subscriber Identity (IMSI); and

routing the registration request to an interworking and interoperability function (IIF); and

at the IIF, mapping the MSIN to the IMSI and routing the registration request to the GSM HLR using the IMSI.

27. (new) The method of Claim 26, further comprising:

at the IIF, querying the GSM HLR using the IMSI to obtain location information associated with the subscription profile, and routing the location information to the MSC in the visited network.

28. (new) The method of Claim 26, wherein the step of detecting that the wireless device has been migrated comprises detecting a block identifier in the registration request, the block identifier indicating that the wireless device is a member of a group has been migrated to the GSM network by transferring the subscription profile to the GSM HLR.